

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each.

1 1. (Currently amended) A mobile communications system having a
2 wireless control apparatus connected to a mobile communications unit, and
3 a node ~~which is~~ connected to the wireless control apparatus and provided
4 on a packet switching (PS) network side configuring a core network, ~~and~~
5 wherein the node is arranged for ~~has a~~ packet processing, for packet
6 switching communication with said PS network side, of circuit switching
7 (CS) calls of the mobile communications unit and PS calls of the mobile
8 communications unit ~~capability~~, wherein

9 the node comprises:

10 PS user data processing unit configured to control user data
11 relating to a PS call of the mobile communications unit;

12 CS user data processing unit configured to control user data
13 relating to a CS ~~(circuit switching)~~ call of the mobile communications unit;
14 and

15 control unit configured to control said PS and CS user data
16 processing units by controlling signaling relating to the PS call and the CS
17 call.

1 2. (Currently amended) The mobile communications system of ~~according~~
2 to claim 1, wherein:

3 the node is located between the wireless control apparatus and an
4 IP network; and

5 said CS user data processing unit comprises a CODEC for
6 performing mutual conversion between a coding system of user data on a
7 wireless control apparatus side and a coding system on an IP network side.

1 3. (Currently amended) The mobile communications system ~~of according~~
2 to claim 2, wherein

3 said CS user data processing unit comprises a ~~performing~~ mutual
4 conversion unit configured to perform mutual conversion between a packet
5 format of user data on the wireless control apparatus side and a packet
6 format on the IP network side.

1 4. (Currently Amended) The mobile communications system ~~of according~~
2 ~~to~~ claim 2, wherein:

3 a connection request relating to the CS call from the mobile
4 communications unit includes connection information about a connection
5 through the IP network; and

6 the wireless control apparatus ~~is configured to detect~~ detects the
7 connection information and, in response, to connects the CS call to the
8 node.

1 5. (Currently amended) A node ~~which is~~ connected to a wireless control
2 apparatus connected to a mobile communications unit and provided on a
3 packet switching (PS) network side configuring a core network of a mobile
4 communications system, ~~and wherein the node is arranged for has a~~
5 packet processing, for packet switching communication with said PS
6 network side, of circuit switching (CS) calls of the mobile communications
7 unit and PS calls of the mobile communications unit capability,
8 comprising:

9 PS user data processing unit configured to control user data relating
10 to a PS call of the mobile communications unit;

11 CS user data processing unit configured to control user data relating
12 to a CS (~~circuit switching~~) call of the mobile communications unit; and

13 control unit configured to control said PS and CS user data
14 processing units by controlling signaling relating to the PS call and the CS
15 call.

1 6. (Currently amended) The node ~~of according to~~ claim 5, wherein:
2 the node is located between the wireless control apparatus and an
3 IP network; and
4 said CS user data processing unit comprises a CODEC for
5 performing mutual conversion between a coding system of user data on a
6 wireless control apparatus side and a coding system on an IP network side.

1 7. (Currently amended) The node ~~of according to~~ claim 6, wherein
2 said CS user data processing unit comprises a ~~performing~~ mutual
3 conversion unit configured to perform mutual conversion between a packet
4 format of user data on the wireless control apparatus side and a packet
5 format on the IP network side.

1 8. (Currently Amended) A wireless control apparatus connected to a
2 mobile communications unit and a node which is provided between the
3 wireless control apparatus and an IP network and on a packet switching
4 (PS) network side forming a core network, wherein the node is arranged
5 for ~~has a~~ packet processing, for packet switching communication with said
6 PS network side, of circuit switching (CS) calls of the mobile
7 communications unit and PS calls of the mobile communications unit
8 capability, and comprises:

9 PS user data processing unit configured to control user data relating
10 to a PS call of the mobile communications unit;

11 CS user data processing unit configured to control user data relating
12 to a CS (~~circuit switching~~) call of the mobile communications unit; and

control unit configured to control said PS and CS user data processing unit by controlling signaling relating to the PS call and the CS call, wherein:

a connection request relating to the CS call from the mobile communications unit includes information about a connection through the IP network; and

a detector unit configured to detect the information and, in response, to connect ~~connecting~~ the CS call to the node ~~is included~~.

9. (Currently Amended) An operation control method for a mobile communications system having a wireless control apparatus connected to a mobile communications unit, comprising:

providing and a node which is connected to the wireless control apparatus and provided on a packet switching (PS) network side configuring a core network, the node configured for packet processing, for packet switching communication with said PS network side, of user data of a PS call of the mobile communications unit and for packet processing of user data of a circuit switching (CS) call of the mobile communications unit capability, wherein

the node performs the steps of:
performing, within the node, a PS user data processing step of controlling user data relating to a PS call of the mobile communications unit;

performing, within the node, a CS user data processing step of controlling user data relating to a CS ~~(circuit-switching)~~ call of the mobile communications unit; and

performing, within the node, a control step of controlling signaling relating to the PS call and the CS call.

1 10. (Currently Amended) The operation control method of according to
2 claim 9, wherein:

3 the node is located between the wireless control apparatus and an
4 IP network; and

5 the CS user data processing ~~step~~ comprises ~~a step of~~ performing
6 mutual conversion between a coding system of user data on a wireless
7 control apparatus side and a coding system on an IP network side.

1 11. (Currently Amended) The operation control method of according to
2 claim 10, wherein

3 the CS user data processing ~~step~~ comprises ~~a step of~~ performing
4 mutual conversion between a packet format of user data on a wireless
5 control apparatus side and a packet format on an IP network side.

1 12. (Currently Amended) The operation control method of according to
2 claim 10, wherein:

3 a connection request relating to the CS call from the mobile
4 communications unit includes information about a connection through the
5 IP network[[]] and further comprising

6 detecting, within the wireless control apparatus, ~~comprises the steps~~
7 ~~of detecting~~ the information and, in response to the detecting, connecting
8 the CS call to the node.

1 13. (Currently Amended) A record medium encoded with a program that
2 can be executed by a computer which is used to direct a computer to
3 perform an operation of a node which is connected to a wireless control
4 apparatus connected to a mobile communications unit and provided on a
5 packet switching (PS) network side configuring a core network of a mobile
6 communications system, wherein the node is arranged for and has a
7 packet processing, for packet switching communication with said PS

8 network side, of circuit switching (CS) calls of the mobile communications
9 unit and PS calls from the mobile communications unit capability, the
10 operation comprising:

11 a PS user data processing ~~step of~~ controlling user data relating to a
12 PS call of the mobile communications unit;

13 a CS user data processing ~~step of~~ controlling user data relating to a
14 CS (~~circuit switching~~) call of the mobile communications unit; and

15 a control ~~step of~~ controlling signaling relating to the PS call and the
16 CS call.

1 14. (Currently Amended) The record medium of ~~according to~~ claim 13,
2 wherein:

3 the node is located between the wireless control apparatus and an
4 IP network; and

5 the CS user data processing ~~steps~~ comprises ~~a step of~~ performing
6 mutual conversion between a coding system of user data on a wireless
7 control apparatus side and a coding system on an IP network side.

1 15. (Currently Amended) The record medium of ~~according to~~ claim 14,
2 wherein

3 the CS user data processing ~~step~~ comprises ~~a step of~~ performing
4 mutual conversion between a packet format of user data on the wireless
5 control apparatus side and a packet format on the IP network side.

1 16. (Currently Amended) The mobile communication system of ~~according~~
2 ~~to~~ claim 1, wherein the node is a SGSN (serving global packet service
3 support node).

1 17. (Currently Amended) The node of ~~according to~~ claim 5, wherein the
2 node is a SGSN (serving ~~global~~ ~~global~~ packet service support node).